

Title (en)

BLOCK COPOLYMER-CONTAINING INORGANIC PARTICLE DISPERSION FOR COSMETICS

Title (de)

BLOCKCOPOLYMERHALTIGE ANORGANISCHE PARTIKELDISPERSION FÜR KOSMETIKA

Title (fr)

DISPERSION DE PARTICULES INORGANIQUES CONTENANT UN COPOLYMÈRE SÉQUENCÉ POUR PRODUITS COSMÉTIQUES

Publication

EP 3811924 A4 20220309 (EN)

Application

EP 19810088 A 20190514

Priority

- JP 2018102631 A 20180529
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Abstract (en)

[origin: EP3811924A1] The invention provides an inorganic particle dispersion comprising a novel block copolymer capable of improving dispersibility of inorganic particles, particularly an inorganic particle dispersion for a cosmetic. The inorganic particle dispersion, particularly the inorganic particle dispersion for a cosmetic of the present invention comprises a dispersion medium, an inorganic particle dispersed in the dispersion medium, and a block copolymer comprising a hydrophobic segment and a hydrophilic segment, wherein the hydrophobic segment comprises a monomer unit composed of at least one monomer selected from the following Formula 1 and Formula 2, wherein at least a portion of the hydrophilic segment is adsorbed on the inorganic particle, and the hydrophobic segment is oriented outwardly relative to the inorganic particle: where $R^{¹}$ is hydrogen or a methyl group, $R^{²}$ is hydrogen or fluorine, m is an integer of 0 to 6, and n is an integer of 1 to 15, where $R^{¹}$ is hydrogen or a methyl group, $R^{³}$ and $R^{⁴}$ are each independently an alkyl group having 1 to 6 carbon atoms, m is an integer of 1 to 6, and p is an integer of 5 to 70.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [X] WO 2009017179 A1 20090205 - FUJIFILM CORP [JP], et al
- [Y] EP 3178468 A1 20170614 - SHISEIDO CO LTD [JP]
- [Y] DATABASE WPI Week 200627, Derwent World Patents Index; AN 2006-256704, XP002805415
- See references of WO 2019230378A1

Designated contracting state (EPC)

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